

Sub
a1

1. A computerized method for assessing medical conditions affecting a person, said method comprising the steps of:
- 5 a) providing a plurality of profiles relating predetermined medical conditions to human body parts, each said profile describing an estimated capacity of at least one said body part, due to at least one said condition, over time;
- 10 b) identifying one or more said predetermined medical conditions that affect said person;
- c) selecting a said profile corresponding to each said medical condition; and
- d) relating said selected profile's time
- 15 dimension to the occurrence of its said medical condition.
2. The method as in claim 1, including displaying an assessment of the impact of said medical conditions on said person, wherein said assessment is
- 20 based on said profiles related to said medical conditions at step (d).
3. The method as in claim 2, wherein said human body parts are classified into a multi-level hierarchy, each said body part in each level of said
- 25 hierarchy below a highest level of said hierarchy being a component body part of a composite body part in a higher level in said hierarchy.
4. The method as in claim 3, including the steps
- 30 e) for at least one said composite body part having a said selected profile, allocating said estimated capacity of said selected profile among said component body parts of said composite body part, and
- f) creating an inherited profile for each said

5 wherein said assessment is based on any said
inherited profiles at step (f).

wherein said assessment is based on any said at
15 most one profile at step (q).

h) combining, up to each said composite body part, said at most one profile of each said component body part of said composite body part so that each said composite body part has at most one profile that describes an estimated capacity of said composite body part over time,

7. The method as in claim 6, wherein said combining step (h) includes combining said profiles of said component body parts of at least one said composite body part based on the spatial relationship among said component body parts within the human body.

8. The method as in claim 6, wherein the magnitude of said estimated capacity contributed to said composite profile by a said component profile combined at step (h) is positively related to the

spatial distance between said component body part and other said component body parts of said composite body part.

9. The method as in claim 6, wherein said
5 combining step (h) combines estimated capacities $D(i)$ for each profile day among said profiles of said component body parts up to an estimated capacity $X(M)$ for said profile day for at least one said composite body part, where $X(i) = X(i-1) + (1-X(i-1))D(i)$, for i
10 $= 1$ to M , where M is the number of profiles being combined, $D(i)$ is in decimal format, and $X(0) = 0$.

10. The method as in claim 6, wherein, for each said component of said composite of step (h), the magnitude of the estimated capacity contributed to
15 said composite profile by said profile of said component body part is modified by a scaling factor that relates said component body part's contribution to the capacity of said composite body part.

11. The method as in claim 10, wherein said
20 scaling factor includes a first part that relates said component body part's contribution to the capacity of a group of said components and a second part that relates said group's contribution to the capacity of said composite body part.

25 12. The method as in claim 2, including the step
e) modifying at least one said selected profile based on an assessment by a medical practitioner of said medical condition to which said selected profile corresponds,

30 wherein said assessment is based on any said profiles modified at step (e).

13. The method as in claim 12, wherein step (e) includes

comparing said assessment to said selected

00539218-033000

determining whether said assessment at step (e) agrees with said selected profile according to first predetermined criteria dependent upon said assessment,

changing said profile according to second
10 predetermined criteria dependent upon said assessment
if said assessment does not agree with said selected
profile according to said first predetermined
criteria.

15. The method as in claim 2, wherein step (c) includes modifying said selected profiles according to predetermined rules based on one or more characteristics of said medical condition and/or said person.

sub-

30 b) ~~identifying~~ one or more said body parts that
affect performance of a job by said person;

c) determining what capacity level of each said one or more body parts inhibits said person from performing said job;

10
Cont
Ad

5 f) relating each said selected profile's time
dimension to the occurrence of its said medical
condition;

15 selected profile corresponds does not inhibit said
job; and

17. The method as in claim 16, including displaying said latest date.

25 dysfunction level profiled by said applicable selected
profile falls below said dysfunction level determined
at step (c) for its said body part.

30 profile fails to move beyond said capacity level
determined at step (c) for its said body part so that
said medical condition to which said applicable
selected profile corresponds does not inhibit said
job, said date determined at step (g) indicates that

20. The method as in claim 17, including,
following step (f) and prior to step (g), the step

wherein said combined profile from step (i) is said applicable selected profile at step (g) for said body part to which said combined profile applies.

22. The method as in claim 21, including,
following step (f) and prior to step (g), the steps

j) creating an inherited profile for each said component body part of said composite body part of step (i), said inherited profile describing said estimated capacity allocated to said component body part from said composite body part over time.

k) for each said body part that is a said body part determined at step (b) or a lower-level component body part of a said body part determined at step (b) and that has multiple said selected profiles and/or

said inherited profiles, combining said multiple profiles so that said body part has one profile that describes an estimated capacity of said body part over time, and

5 wherein said combined profile from step (k) is said applicable selected profile at step (g) for said body part to which said combined profile applies.

24. The method as in claim 23, including, following step (k) and prior to step (g) the step

10 1) combining, up to each composite body part that is a said body part determined at step (b) or a lower-level component body part of a said body part determined at step (b), said profile of each said component body part of said composite body part so
15 that said composite body part has at most one profile that describes an estimated capacity of said composite body part over time, and

 wherein said combined profile from step (1) is said applicable selected profile at step (g) for said
20 composite body part to which said combined profile applies.

25. The method as in claim 17, including, following step (f) and prior to step (g) the step

 i) modifying at least one said selected profile
25 based on an assessment by a medical practitioner of said medical condition to which said selected profile corresponds.

26. The method as in claim 17, wherein step (g) includes modifying said date based on an assessment by
30 a medical practitioner of said person's ability to perform an act used in performing said job.

27. The method as in claim 26, wherein said modifying step of step (g) includes

 comparing said assessment to said date;

00539218-033000

leaving said date unchanged with respect to said
5 assessment if said assessment agrees with said date
according to said first predetermined criteria, and

28. The method as in claim 17, wherein step (h) includes modifying said latest date based on an assessment by a medical practitioner of said person's ability to perform said job.

comparing said assessment to said latest date;
determining whether said assessment agrees with
said latest date according to first predetermined
criteria dependent upon said assessment,

25 changing said latest date according to second
predetermined criteria dependent upon said assessment
if said assessment does not agree with said latest
date according to said first predetermined criteria.

31. A computerized method for assessing the

Sub 3

cont
10
C3

- b) providing, for each medical condition of a plurality of predetermined medical conditions, a severity value that describes the impact of said medical condition on at least one said body part;

- d) combining said severity values for said medical conditions identified at step (c) to a combined severity value.

33. The method as in claim 32, wherein said
20 severity values are non-monetary values, and wherein
step (d) includes converting said combined severity
value to a monetary value, and

25 34. The method as in claim 33, wherein step (b)
includes providing a plurality of profiles relating said
predetermined medical conditions to said body
parts, each said profile describing an estimated
capacity of at least one said body part, due to at
30 least one said condition, over time, wherein each said
profile is assigned a said severity value.

e) for each said body part having multiple said

5

f

10

15

20

30

40. The method as in claim 39, wherein step (f) includes combining said severity values of said component body parts and said composite body parts up

41. The method as in claim 40, wherein said severity values are non-monetary values and wherein step (d) includes converting said combined severity value to a monetary value.

e) for each said body part having multiple said medical conditions identified at step (c), prior to combining said severity values to said combined severity value, combining said severity values corresponding to said identified medical conditions to a total severity value for said body part, and

43. The method as in claim 42, wherein said combining step (e) includes combining said multiple severity values based on the time at which said medical conditions to which said multiple severity values correspond occur and on the length of said profiles corresponding to said body parts.

45. The method as in claim 44, wherein step (f) includes, for each said composite body part prior to combining up to said combined severity value, combining said severity value of each said component body part of said composite body part up to a composite body part severity value for said composite

46. The method as in claim 45, wherein said combining step (f) includes combining said severity values of said component body parts of at least one said composite body part based on the spatial relationship among said component body parts within the human body.

e) modifying at least one said severity value based on an assessment by a medical practitioner of said medical condition to which said severity value corresponds.

f) modifying at least one said selected profile based on an assessment by a medical practitioner of said medical condition to which said selected profile corresponds, and

49. The method as in claim 32, wherein, for a said medical condition corresponding to a whiplash injury, step (b) includes deriving said severity value for said injury based on treatment applied to said whiplash injury.

50. The method as in claim 49, wherein said deriving step includes deriving said severity value for said whiplash injury based on treatment applied to said whiplash injury and on the type of medical

51. The method as in claim 32, including the step

52. The method as in claim 32, including the step

53. The method as in claim 32, including the step

wherein said assessment is based on any said severity provided at step (e).

55. The method as in claim 32, wherein, for a said medical condition corresponding to a post traumatic stress disorder, step (b) includes deriving said severity value for said medical condition based on treatment applied to said post traumatic stress disorder.

5

step

10

severity provided at step (e).

15

20

step

25

30

steps

hospital as a patient, providing a severity value that

describes the impact on said person of said time,

f) where said person has received convalescent care, providing a severity value that describes the impact on said person of time spent by said person
5 under convalescent care,

g) where said person is predicted to suffer a medical condition in the future, providing a severity value that describes the impact on said person of said medical condition,

10 h) where said person has suffered post traumatic stress syndrome, providing a severity value that describes the impact on said person of said post traumatic stress syndrome,

i) where said person has suffered a temporary
15 loss of ability to enjoy life, providing at least one severity value that describes the impact on said person of said loss,

j) where said person has suffered a permanent loss of ability to enjoy life, providing at least one
20 severity value that describes the impact on said person of said loss, and

k) where said person has suffered a permanent dysfunction, providing a severity value that describes the impact on said person of said permanent
25 dysfunction,

wherein said assessment is based on any said severities provided at steps (e) - (k).

62 The method as in claim 61, including the step

30 1) combining any said severity values provided at steps (e) - (k) with said combined severity value, wherein said assessment is based on a combined severity value from step (1).

63. The method as in claim 62, wherein said

0539218-033000

wherein step (1) includes converting any said severity values provided at steps (e) - (k) and said combined severity value to a monetary value, and

64. The method as in claim 63, wherein step (1) includes expressing said monetary value as a range of expected monetary values.

m) combining any said severity values provided at steps (e) - (i) with said combined severity value,

o) converting said severity value as combined at step (m) to a first monetary value,

q) combining said first and second monetary values.

67. The method as in claim 32, including the step

68. The method as in claim 32, including the step

e) where said person is predicted to lose wages

due to said medical conditions identified at step (c),
assessing a monetary amount for said lost wages.

69. A method for assessing the impact of medical
conditions on a person, said method comprising the
steps of

a) providing a model of the human body, said
model including body parts that, in combination with
each other, form the human body, wherein said human
body parts are classified into a multi-level

10 hierarchy, each said body part in each level of said
hierarchy below a highest level of said hierarchy
being a component body part of a composite body part
in a higher level in said hierarchy;

b) providing, for each medical condition of a
15 plurality of predetermined medical conditions, a
severity value that describes the impact of said
medical condition on at least one said body part;

c) identifying one or more said predetermined
medical conditions that affect said person;

20 d) for each said body part having multiple said
medical conditions identified at step (c), combining
said severity values corresponding to said identified
medical conditions to a total severity value for said body
part based on the time at which said medical

25 conditions to which said severity values correspond
occurred;

e) for each said composite body part up to a
composite body part corresponding to the human body as
a whole, combining said severity value of each said
30 component body part of said composite body part up to
a composite body part severity value for said
composite body part based on the spatial relationship
among said component body parts within the human body;

f) where said person has spent time in a

00539218.033000

Sub
at

g) where said person has received convalescent care, providing a severity value that describes the impact on said person of time spent by said person under convalescent care;

h) where said person is predicted to suffer a medical condition in the future, providing a severity value that describes the impact on said person of said
10 medical condition;

i) where said person has suffered post traumatic stress syndrome, providing a severity value that describes the impact on said person of said post traumatic stress syndrome;

15 j) where said person has suffered a temporary
loss of ability to enjoy life, providing at least one
severity value that describes the impact on said
person of said loss;

20 k) where said person has suffered a permanent loss of ability to enjoy life, providing at least one severity value that describes the impact on said person of said loss; and

1) where said person has suffered a permanent
dysfunction, providing a severity value that describes
25 the impact on said person of said permanent
dysfunction.

70. The method as in claim 69, including displaying an assessment of the impact of said medical conditions on said person, wherein said assessment is based on said whole body severity value determined at step (e) and on any said severity values provided at steps (f) - (1) .

71. The method as in claim 70, wherein said severity values are non-monetary values,

including the step

m) converting said whole body severity of step (e) and any said severities provided at steps (f) - (1) to a monetary value, and

5 wherein said assessment is based on said monetary value.

72. The method as in claim 71, wherein step (m) includes the steps

10 n) combining any said severity values provided at steps (f) - (j) with said whole body severity value of step (e),

o) combining any said severity values provided at steps (k) and (1) with each other,

15 p) converting said severity value as combined at step (n) to a first monetary value,

q) converting said severity value as combined at step (m) to a second monetary value, and

r) combining said first and second monetary values.

20 73. The method as in claim 72, wherein step (r) includes expressing said combined first and second monetary values as a range of expected monetary values.

25 74. The method as in claim 70, including the step

m) where said person has lost, and/or will lose in the future, wages due to said medical conditions identified at step (c), assessing a monetary amount for said lost wages.

30 75. The method as in claim 70, including the step

m) where said person is predicted to lose wages due to said medical conditions identified at step (c), assessing a monetary amount for said lost wages, and

09539218-033000

200

09539213-030000

15

20

25

30

iii) identifying one or more said

iv) combining said severity values for said medical conditions identified at step (b,iii) to a combined severity value and

78. A method for assessing the impact of medical conditions on a person, said method comprising the steps of

i) providing a plurality of profiles relating predetermined medical conditions to human body parts, each said profile describing an estimated capacity of at least one said body part, due to at least one said predetermined medical condition, over time,

25 iii) determining what capacity level of
each said one or more body parts inhibits said person
from performing said job,

v) selecting a said profile corresponding to each said one or more medical conditions,

vi) relating each said selected profile's time dimension to the occurrence of its said medical

As Cont

5
10

b) where said person is subject to a common law compensation system,

15
20

25

30

Agout 20

xii) where said person has suffered a permanent dysfunction, providing a severity value that

describes the impact on said person of said permanent dysfunction; and

5 c) displaying an assessment of the impact of said medical conditions identified at steps (a,ii) or (b,iii) on said person, wherein said assessment is based on said latest date at step (a,viii) or on said whole body severity at step (b,v) and any said severities provided at steps (b,vi)-(b,xii), respectively.

10 79. The method as in claim 78, wherein said severity values are non-monetary values, and including the step

15 b,xiii) converting said whole body severity of step (b,v) and any said severities provided at steps (b,vi) - (b,xii) to a monetary value, and wherein said assessment is based on said monetary value.

20 80. The method as in claim 79, wherein said estimated capacity is described as a dysfunction level and wherein step (a,vii) includes determining said date from said applicable selected profile upon which said dysfunction level profiled by said applicable selected profile falls below said dysfunction level determined at step (a,iii) for its said body part.

25 81. The method as in claim 80, wherein, where said estimated capacity of said applicable selected profile fails to move beyond said capacity level determined at step (a,iii) for its said body part so that said medical condition to which said applicable selected profile corresponds does not inhibit said job, said date determined at step (a,vii) indicates that said condition always inhibits said job.

30 82. The method as in claim 79, including, following step (a,vi) and prior to step (a,vii), the

09539218-033000

step

(a,ix) for each said body part determined at step (a,ii) having multiple said selected profiles, combining said multiple profiles so that said body
5 part has one profile that describes an estimated capacity of said body part over time, and

wherein said combined profile from step (a,ix) is said applicable selected profile at step (a,vii) for said body part to which said combined profile applies.

10 83. The method as in claim 79, wherein said human body parts are classified into a multi-level hierarchy, each said body part in each level of said hierarchy below a highest level of said hierarchy being a component body part of a composite body part
15 in a higher level in said hierarchy.

84. The method as in claim 83, including, following step (a,vi) and prior to step (a,vii), the steps

a,ix) for at least one said composite body part
20 having a said selected profile, allocating said estimated capacity of said selected profile among said component body parts of said composite body part, and

a,x) creating an inherited profile for each said component body part of said composite body part of
25 step (a,ix), said inherited profile describing said estimated capacity allocated to said component body part from said composite body part over time.

85. The method as in claim 84, including, following step (a,x) and prior to step (a,vii), the
30 step

a,xi) for each said body part that is a said body part determined at step (a,ii) or a lower-level component body part of a said body part determined at step (a,ii) and that has multiple said selected

00539218-033000

5 wherein said combined profile from step (a,xi) is
said applicable selected profile at step (a,vii) for
said body part to which said combined profile applies.

86. The method as in claim 85, including, following step (a,xi) and prior to step (a,vii) the step

a,xii) combining, up to each composite body part that is a said body part determined at step (a,ii) or a lower-level component body part of a said body part determined at step (a,ii), said profile of each said component body part of said composite body part so that said composite body part has at most one profile that describes an estimated capacity of said composite body part over time, and

wherein said combined profile from step (a,xii) is said applicable selected profile at step (a,vii) for said composite body part to which said combined profile applies.